

NASA Education

***Inspiring and Engaging
Tomorrow's Space Explorers***

Dr. Roosevelt Y. Johnson
NASA Deputy Associate Administrator
for Education



NASA is More Than Astronauts...



Educator



Space Farmer



Astronaut



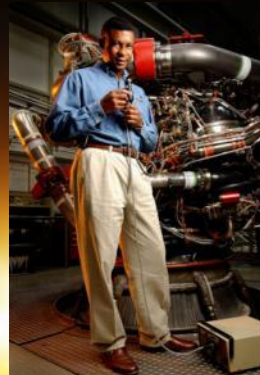
Microbiologist



Spacesuit Designer



Robotics Instructor



Engineer



Scientist



Payload Communicator

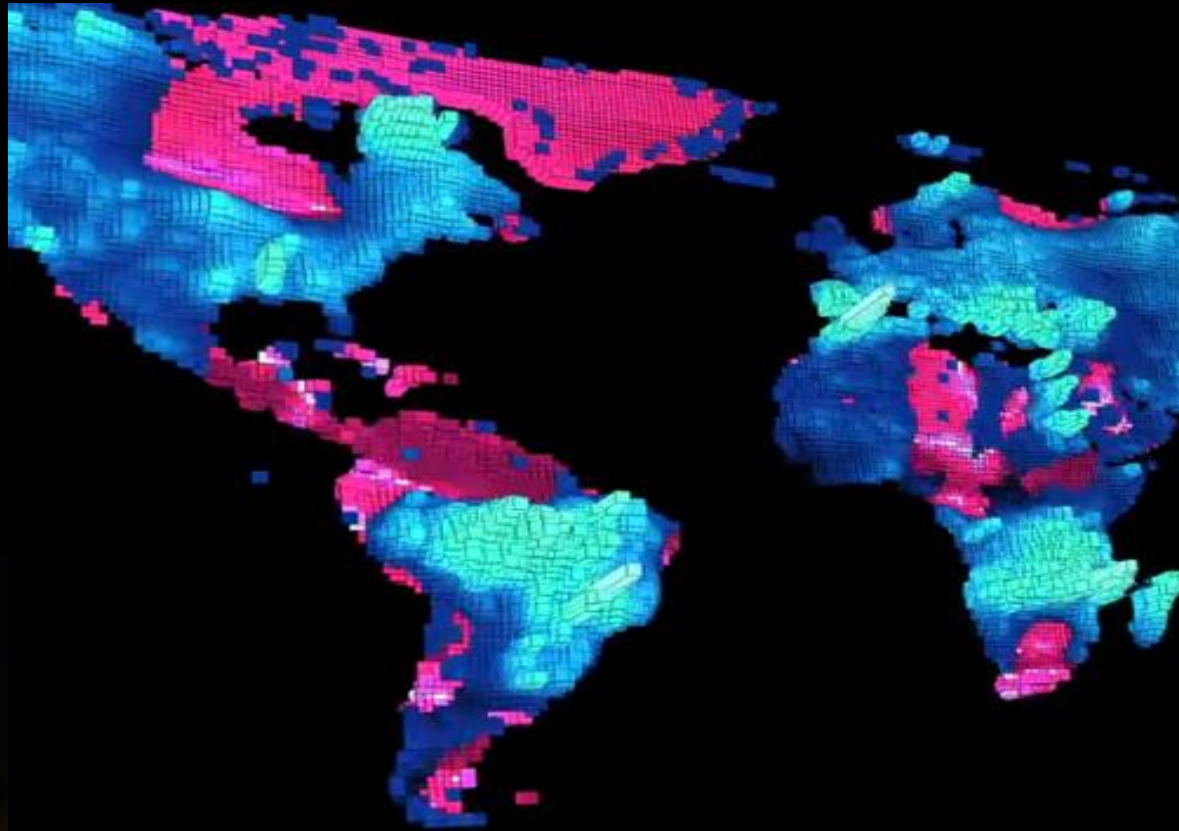
Earth Science at NASA

Goal:

To understand the changing climate, its interaction with life, and how human activities affect the environment.



GRACE Satellites and Groundwater Reserves



A visualization of global groundwater depletion created using data from NASA's GRACE mission has premiered on New York's Times Square to mark World Water Day 2012.

HEADS
UP2012

A VISUALIZATION OF
SEASONAL AND
LONGTERM CHANGES IN
GROUNDWATER LEVELS

HEADSUP2012.COM

NASA EDUCATION



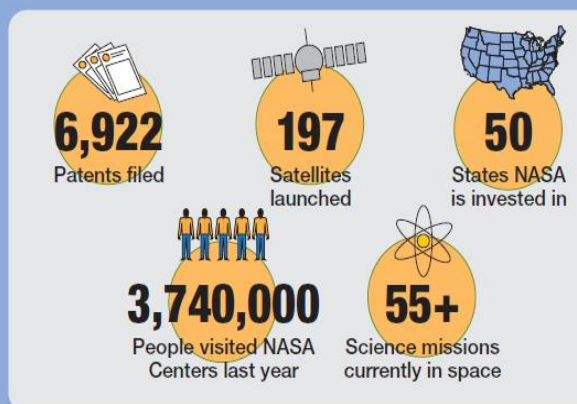
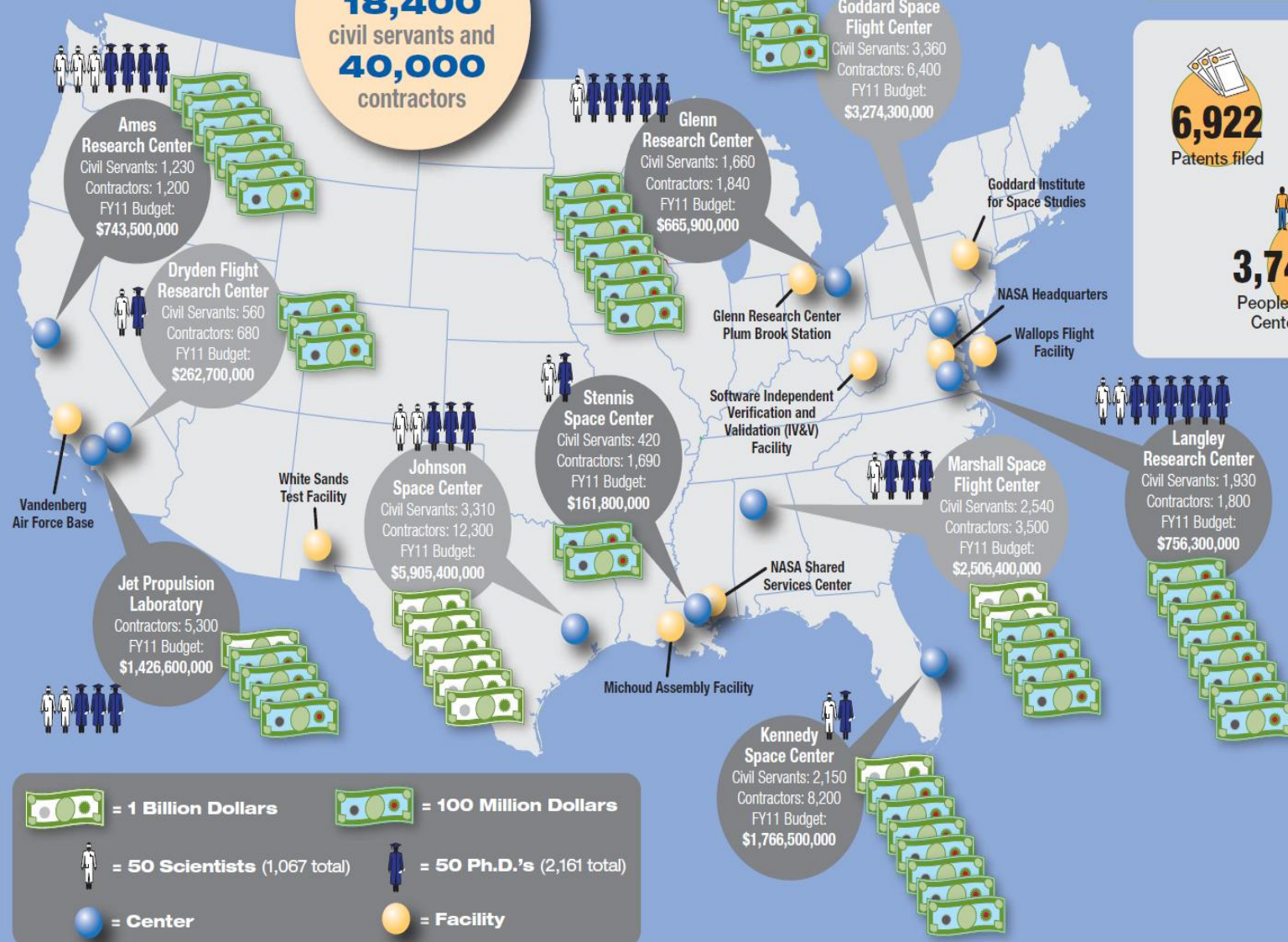
Vision Statement:
*To advance high quality STEM
education using NASA's unique
capabilities*



NASA Investment in the Nation

NASA
provides jobs to
18,400
civil servants and
40,000
contractors

\$.80
NASA invests over 80 cents of every dollar it receives in American business, academia, and nonprofit organizations



Business: **\$12,529,600,000**

Large Business: **\$10,018,900,000**

Small Business: **\$2,517,700,000**

Small Disadvantaged Business: **\$859,700,000**

8(a) Program: **\$462,400,000**

Woman-Owned Business: **\$385,700,000**

Small Business Innovation Research and Technology Transfer: **\$204,000,000**

Education: **\$941,400,000**

Nonprofit Institutions: **\$601,700,000**

= 1 Billion Dollars

= 100 Million Dollars

= 50 Scientists (1,067 total)

= 50 Ph.D.'s (2,161 total)

= Center

= Facility

All information based on FY11 actuals

STEM Education Programs...

Diversity is Key

Minority University Research and Education Program (MUREP)

- Engages underrepresented populations through a variety of initiatives.
- Recruits underrepresented and underserved students in STEM disciplines through completion of undergraduate or graduate degrees
- Works with Historically Black Colleges and Universities, or HBCUs; Hispanic Serving Institutions, or HSIs; and Tribal Colleges and Universities, or TCUs



NASA Internships, Fellowships and Scholarships

 Office of Education Infrastructure Division
One Stop Shopping Initiative (OSSI) LaunchPad
An Innovative Solution to Support the STEM Workforce of Tomorrow
NASA Office of Education | NASA Office of Communications | NASA Human Capital Management

Home **Student Opportunities** Data Collection and Analysis Customer Service Support Systems

One Stop Shopping Initiative

One NASA System • One Submitted Application • One Amazing Opportunity

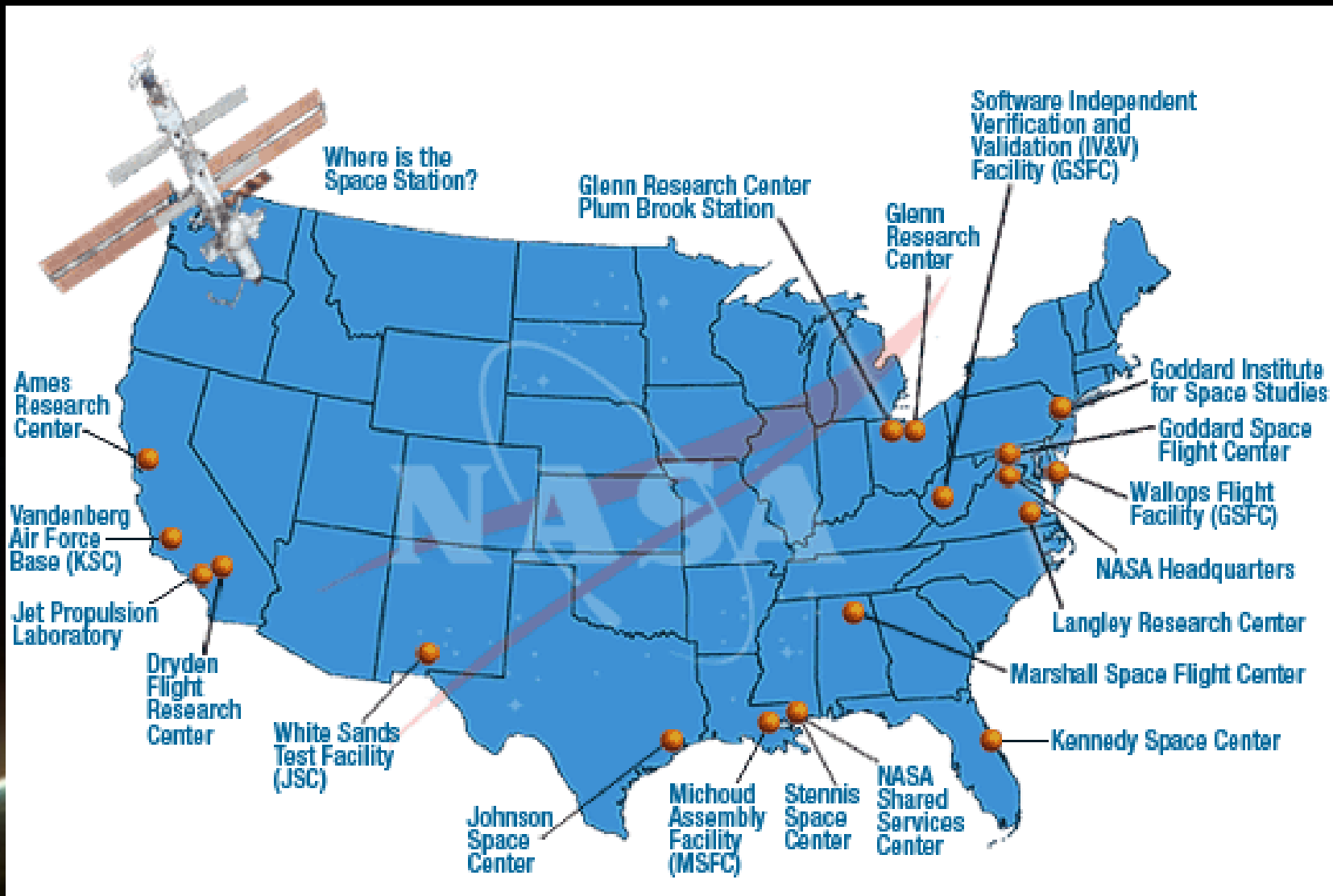


1 2 3 4 5 6



www.intern.nasa.gov

NASA Internship, Fellowship and Scholarship Locations in the U.S.



NASA Pathways Programs



The screenshot shows the NASA Pathways Programs website. The browser address bar displays www.nasajobs.nasa.gov/studentopps/default.htm. The page features the NASA logo and the NASA People logo. A search bar is located at the top right. The main navigation menu includes links to Home, Benefits at NASA, Careers at NASA (which is highlighted), Human Capital Program, NASA Retirees, and About NASA. The left sidebar contains a 'Pathways Landing Page' section with links to About Pathways, Intern Employment Program, Recent Graduates Program, PMF Program, Pathways POCs, and Pathways Opportunities. Below this is a 'NASA Workforce Map' section with a map of the United States and a 'Click to Begin' button. The main content area is titled 'Pathways Programs at NASA' and includes a description of the programs, a list of program types (NASA Pathways Intern Employment Program (IEP), NASA Pathways Recent Graduates Program (RGP), and NASA Pathways Presidential Management Fellows (PMF) Program), and a 'Pathways Programs Toolbox' section. The toolbox contains links to NASA Pathways IEP, NASA Pathways RGP, NASA Pathways PMF Program, Additional Information, Student Opportunities, and One Stop Shopping Initiative. The right sidebar contains a 'Quick Links' section with various links including USAJOBS, USAJOBS for Students, Jobs by College Major, USAJOBS Tutorials, Accredited Institutions, 2011 Best Places to Work, 10-point Veteran Preference, Feds Hire Vets, Job Info for Disabled, Diversity and Inclusion, How Federal Jobs are Filled, Executive Order 13562, OPM Hiring Reform, Glossary of Terms, and One Stop Shopping Initiative. The footer contains links to Contacts, NASA.gov, InsideNASA.gov, NASAPeople.gov, Freedom of Information Act, Privacy Policy, Sitemap, and Feedback.

NASA **NASAPeople**

Enter Search Terms Here

Home Benefits at NASA **Careers at NASA** Human Capital Program NASA Retirees About NASA

Pathways Landing Page

- About Pathways
- Intern Employment Program
- Recent Graduates Program
- PMF Program
- Pathways POCs
- Pathways Opportunities

NASA Workforce Map

Click to Begin

Pathways Programs at NASA

NASA Pathways Programs provide opportunities for students and recent graduates to be considered for Federal employment through:

- NASA Pathways Intern Employment Program (IEP)
- NASA Pathways Recent Graduates Program (RGP)
- NASA Pathways Presidential Management Fellows (PMF) Program

Pathways Programs Toolbox

- NASA Pathways IEP**
View info on the NASA Pathways Intern Employment Program (IEP) for current students and individuals in a qualifying educational program
- NASA Pathways RGP**
View info on the NASA Pathways Recent Graduates Program (RGP) for individuals who recently graduated
- NASA Pathways PMF Program**
View info on the NASA Pathways Presidential Management Fellows (PMF) Program for advanced degree candidates
- Additional Information**
View info on student employment, including occupations, benefits, and other useful sites
- Student Opportunities**
Opportunities for students and recent graduates
- One Stop Shopping Initiative**
View info on non-civil service student opportunities available through NASA's Office of Education

Quick Links

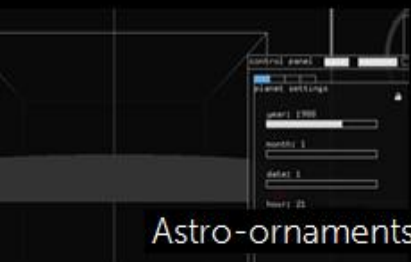
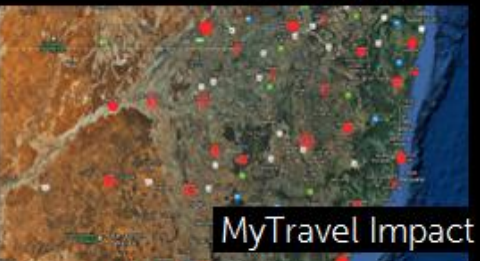
- USAJOBS
- USAJOBS for Students
- Jobs by College Major
- USAJOBS Tutorials
- Accredited Institutions
- 2011 Best Places to Work
- 10-point Veteran Preference
- Feds Hire Vets
- Job Info for Disabled
- Diversity and Inclusion
- How Federal Jobs are Filled
- Executive Order 13562
- OPM Hiring Reform
- Glossary of Terms
- One Stop Shopping Initiative

Contacts NASA.gov InsideNASA.gov NASAPeople.gov Freedom of Information Act Privacy Policy Sitemap Feedback

<http://www.nasajobs.nasa.gov/studentopps/default.htm>

International Space Apps Challenge

111 orgs, 25 cities, 17 countries, 2,083 people,
71 challenges, 100+ solutions in 48 hours



YouTube Space Lab



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subscribers

48,421,585
video views

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YOUR JOURNEY TO OUTER SPACE

Strap yourself in and relive the incredible journey of YouTube Space Lab, which sent two science experiments chosen by the YouTube community, up to the International Space Station to be watched live by millions. Check back regularly for new space videos.

VIDEO LAUNCHPAD



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YouTube Space Lab: From 250



Space Lab Winners, Dorothy



Space Lab Winner, Amr, travels to

YouTube EDU



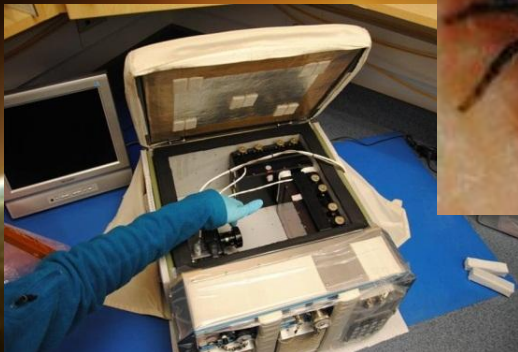
Go even further with these cool YouTube channels



Winning Experiments on YouTube Space Lab



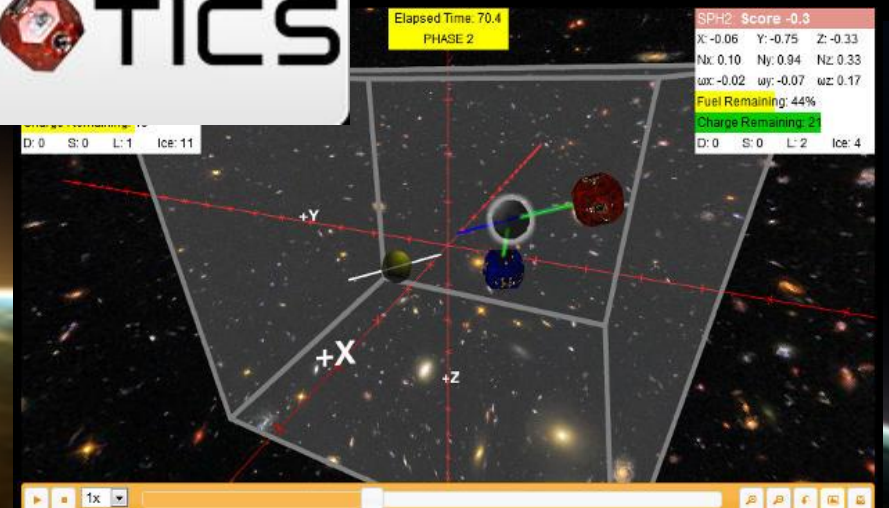
Student Projects Aboard the ISS



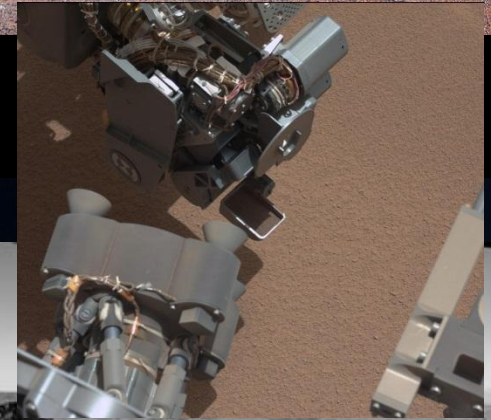
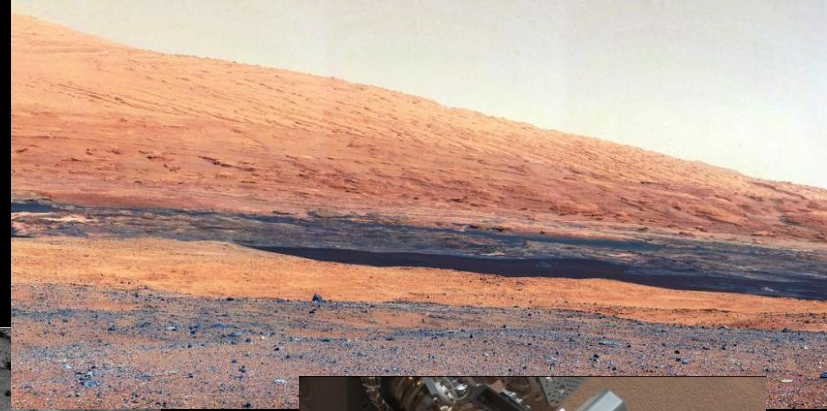
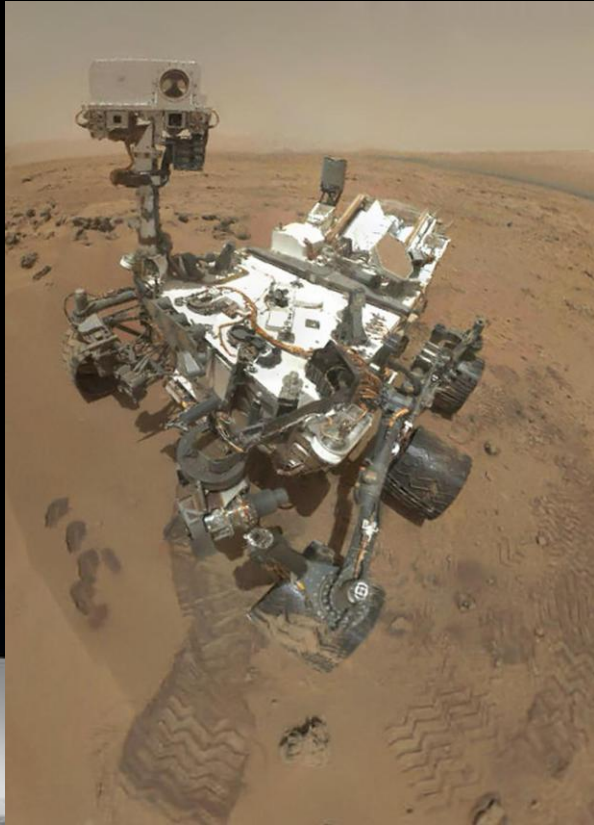
U.S. and EU SPHERES Competition



ZERO
ROBOTICS



MSL: A New Era of Exploration and STEM Education Opportunities



Social Media + NASA Missions = Student Engagement



***NASA Facebook: 1,212,026
“Likes”**

***NASA Students Facebook:
6,975 “Likes”**



**NASA Extreme Environment
Mission Operations (NEEMO)
16 Crew on FB and Twitter**

NASA Missions Inspire Spinoffs... Benefiting Society



Cordless Tools



CAT Scanners



Water Purification



Memory Foam



Smoke Detectors



Mammograms



Invisible Braces





<http://www.nasa.gov>